9 JAIN 1972

Lt. Gen. William C. Gribble, Jr. Chief of Research and Development Department of the Army Washington, D. C. 20310

Dear General Gribble:

Mr. Duckett has asked me to reply to your letter of 3 May concerning the 1972 Army Science Conference. While we appreciate your invitation to attend, the pressure of business precludes our Agency's attending the conference this year.

Thank you for bringing this conference to our attention.

Sincerely,

ponald H. Steininger Assistant Deputy Director for

Science and Technology

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OFFICE OF THE CHIEF OF RESEARCH AND DEVELOPMENT WASHINGTON, D.C. 20310

DD/S&T# 1396-72

Mr. Carl E. Duckett Deputy Director for Science and Technology

Central Intelligence Agency Washington, D. C. 20505

3 May 1972

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Dear Mr. Duckett:

A cordial invitation is extended to you to attend the 1972 Army Science Conference, to be held at the U. S. Military Academy, 20-23 June. The majority of the 400 persons expected to attend will be Army military and civilian scientists and engineers. Other delegations will include representatives from the Departments of the Navy and Air Force, a number of government agencies, Australia, Canada, the Federal Republic of Germany, France, and the United Kingdom.

This is the eighth in a series of conferences inaugurated in 1957. The program includes, for the first time, presentations by the senior representatives of the Army scientific staffs of the aforementioned Allied Nations. It also includes a panel discussion on Reliability, Availability and Maintainability chaired by Mr. Jack Hope, Office of Science and Technology, Executive Office of The President. The Honorable Robert F. Froehlke, Secretary of the Army, will speak at the banquet.

I would be particularly pleased to have you attend; but if this is not possible, a member of your staff will be most welcome. General information concerning the conference and registration card are inclosed. It is requested that the completed registration card and security clearance certification be returned promptly.

I shall look forward to seeing you or your representative at the conference.

Sincerely yours,

1 Inc1 General Information

Lieutenant General/GS

Chief of Research and Development

•	Approved For Re	SCHEDULE OF CONCURRENT SESSION		
		1972 ARMY SCIENCE CONFERENCE		
		HOTEL THAYER		
Siston A (Eudson Gallery)	SESSION B (Crest Room)	SESSION C (Crest Room Terrace)	SESSION D (Lawn Terrace)	ISUSSION E (Gradon Torrent
Dr. C. M. Creashaw, Chairman	Mr. R. F. Jackson, Chairman	Dr. J. V. R. Kaufman, Chairman	; oncoror o (next retrace)	
SUBSESSION A-1	SUBSESSION B-I		SUBSESSION D-1	Istisission L-I
1500-1700 WED, 21 June	1530-1700-WED. 21 June	SUBSESSION C-I	1530-1700 WED, 21 June	1530-1700 MC, 21 June
Dr. John P. Hallows	Mr. James Stillman	1530-1700 WED, 21 June Mr. John A. Johnkoon	COL Robert T. Joy	Nr. Fas 7. Chiling
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		Mr. D. C. Winters		£ .
Dr. Rudolph G. Buser			1	1
" Dr. Robert S. Rhode				
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Nr. Thomas G. Roberts			SP 5 Perry C. Hackett	1 1
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* Mr. Ona R. Lynan		Interface	Personnel. A Technic Exolved	gnulons
	*Mr. L. E. Link		from Molecular Concepts.	
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		Mr. R. D. Scanlon	COL N. F. Conte	Mr. D. G. Ynstelshir
		* Mr. M. A. Russain	Dr. R. M. Nalbandian	
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	*Mr. Roscoe E. Perham	Size and Properties of	* MAJ H. L. Greene	
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Mr. Sceven Ka t	Mr. Gary B. Approved For Re	lease 2003/08/19 : CIA-RDP75B00514	R000190200010-3 e gogan	Ar. J. H. Niell
		Mr. H. Sulinski	Dr. W. E. Stifel	Fr. L. Mooley

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SUESESSION A-II	SUBSESSION B-II	SUBSESSION C-II	SUBSESSION D-II	
0830-1000 THURS, 22 June	0830-1000 THURS, 22 June	0830-1000 THURS, 22 June Dr. Walter S. McAfee	0830-1000 THURS, 22 June COL Garrison Rapmund	0830-1000, THURS, 22 June Dr. Richard L. Haley
COL Bennett L. Lawis	Mr. Robert A. McMurrer	Dr. waiter 5. McAlee	COL Gailleon Kapmund	DI. Richard B. Harey
1. The METRRA Technique	1. Data Processing System	1. Measurement of the Angular	1. Spectral Deficits in	1. A Unique Heterogeneous
	Analysis	Distribution of Photoelec-	Visual Acuity Due to	Explosion at Liquid
*Mr. Guy F. Origlio		trons from Third Generation	Laser Irradiation	Nitrogen Temperature (77° K.)
	* Mr. Charles R. Vick	Photocathode Materials	4 2 2 2 2 2 2	(// 4.)
		* Dr. J. H. Pollard	* Dr. Harry R. Zwick MAJ R. Bruce Bedell	* Mr. Carl R. Wellman
`		"Dr. J. H. Pollard	Mr. Kenneth Bloom	111 0011 111 1101111111
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2. Infrared Mine Datection	2. Filtering of Time Cor-	2. On the Theory of Stopping	2. The Preclinical Detec-	2. Stability of Ammonium
	related Data	of Fast Charged Particles	tion of Chemical .	Nitrate as Inferred from
*Mr. Dwight L. Gravitte	İ		Mutagens and Their	Structural and Lattice-
	* Mr. Richard H. Duncan	* Mr. Ari Brynjolfsson	Evaluation as Genetic	Dynamical Studies
			Health Hazards	Mr. C. S. Choi
	45.		* Dr. Robert L. Capizzi	Mr. Z. Igbal
			Dr. Bruno Papirmeister	* Mr. H. J. Prask
	**			Mr. S. F. Trevino
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3. Measures and Counter-	3. An Extended Finite Dif-	3. Anistropic Dose and Its	3. Acid-base Change in Heat	3. Oscillatory Behavior of
measures for Pradetonation	ferences Method for the	Applications in Direction-	Exhaustion During Basic	Detonating Solid Explo-
of Buried Pressure Elec-	Solution of System	al Radiation Sensing	Training	sives
tric Mines	Problems	* Dr. Stanley Kronenberg	* MAJ A. E. Boyd, III	* Mr. Philip M. Howe
* Mr. Samuel Stiber	+ CDM O TO T	Dr. Robert A. Lux	MAJ G. A. Beller	Mr. Giordano Melani
Mr. George Haber Mr. Joseph Culran	* CPT C. R. Longcor	Dr. Wolfgang J. Ramm Mr. Kristian I. Nison	MAS G. A. Bellel	Mr. Giordano Metani
Mr. Harry Berger		Mr. Robert Pfeffer		
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Simulator and Data Proces-	Model Air Cargo Terminals	i .	phosphorus Poisoning	Explosives Initiation
sing in the D.velopment		* Mr. John J. Antal	* Dr. Ludwig Sternberger	the H D Foir To
of Sophisticated Land	*Mr. H. A. Porte	Mr. Robert L. Becker	Dr. Van M. Sim	* Mr. H. D. Fair, Jr. Mr. D. S. Downs
Nine Fuzes	Mr. W. W. Happ	1	CPT William G. Kavanagh Mr. John J. Cuculis	Mr. A. C. Forsyth
«Mr. N. C. Buther	Mr. C. T. Lee Mr. L. P. McNamee	1	Mr. Howard G. Meyer Mr. David E. Lenz	Mr. M. Blais
America General		Denotes presentor.	Mr. David E. Lenz	Mr. T. F. Gora
	1	elease 2003/08/19 : CIA-RDP75B00514	Dr. Dennis M. Hinton R000100200010-3	
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SUBSESSION A-III	Tay and a second			•
1030-1290 THURS, 22 June Dr. Alvin E. Gorun	SUBSESSION B-III 1030-1200 THURS, 22 June Mr. Edward Lotz	SUBSESSION C-III 1030-1200 THURS, 22 June	SUBSESSION D-III 1030-1200 THURS, 22 June	SUBSESSION E-III 1030-1200 THURS, 22 June
	mr. bawara shoez	Dr. Robert J. Eichelberger	COL Richard F. Barquist	Dr. Benjamin L. Harris
1. A ERL Lightweight Armor Concept Mr. A. Merendino 1* Mr. J. M. Regen	1. Disposal of Cellulosic Waste Materials by Enzymatic Hydrolysis * Dr. Mary Mandels SP4 Lloyd Hontz	1. Optimum Bullet Study * Mr. L. C. MacAllister Mr. B. J. Reiter Mr. B. B. Grollman	1. Restoration of Drug- resistant Bacteria to Sensitivity to Chemo- therapeutic Drugs	1. The Kinetics and Mechanism of the Binary G3 Reaction as Determined by NMR Spectroscopy
	SP4 Dixon Brandt	Mr. A. E. Threilkill Mr. E. Roecker	* Dr. Fred E. Hahn Miss Jennie Ciak	Mr. R. L. Wintermyer * Miss Linda Szafraniec Mr. Harvey R. Bradford
2. Fabrication of New Com- posite Materials *Mr. James W. McCauley	2. An Intensive Approach to the Study of Materials Deterioration in the Tropics	2. Experiment to Assess Capabilities of an Automated Small Arms Test Facility	2. A Mediator for Trigger- ing Non-specific Host Defense Mechanisms	Mr. Harold Klapper 2. Molecular Orbital Theory as Applied to Fulvene Reactions
	*Dr. Wilfried H. Portig Mr. George Gauger Mr. George F. Downs	* MAJ A. B. Phillips CPT R. M. Jones	* Dr. R. S. Pekarek Dr. R. W. Wannemacher	* LTC Robert B. Henry
3. Structural Characteri- zation of XP Films as Related to Mechanical Froperties and Ballistic Performance	3. Development of Multi- purpose Water Purifica- tion Unit for Army Field Use	3. An Analysis of 5.56MM Aluminum Cartridge "Burn- Through" Phenomenon	3. Penetration of the Intestinal Epithelium by Various Microorgan- isms	3. The Mechanism of Action and Treatment of Palytoxin Poisoning
*Mr. C. Richard Desper Mc. Robert W. Lewis Mr. S. L. Lopeta Mr. M. L. Roylance	Mr. Allen Ford, Jr. * Mr. Don C. Lindsten	* Mr. Walter Squire Mr. Reed E. Donnard	* Dr. Akio Takeuchi	* MAJ James A. Vick Mr. Joseph S. Wiles
4. Growth of Large Single Crystals of Al ₂ 0 ₃ by the Gradient Furnate Technique for Transparent Armos Indiacolosis	4. A Probabilistic Model for Structuring a Drainage Network ** LTC R. T. Robinson	4. Analysis of Band Pressure in a Gun Tube Using Finite Elements and Shell Pushing Data	4. Control of VEE Epizootic- Epidemic by Vaccine Devel- oped at USAMRIID	4. A Heat Stable, Highly Sensitive Enzyme for Daton- tion and Identification of Norva Agents
Mr. D. Viedmiski Mr. F. Schmid	Mr. A. J. Swartz	Mr. Stephen G. Sawyer * Mr. John M. Hurban	* LTC Richard O. Spertzel COL Dan Crozier	* Dr. David N. Kramer Dr. Harry G. Michel Dr. William Swain
		Release 2003/08/19: CIA-RDP75B0051 protes presentor.	4R000100200010-3	Mrs. Ethel Hackley

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SUBSESSION A-IV 1330-1500 THURS, 22 June LTC Austin Lowry	SUBSESSION B-IV 1330-1500 THURS, 22 June Dr. William Banks	SUBSESSION C-IV 1330-1500 THURS, 22 June Dr. David B. Rosenblatt	SUBSESSION D-IV 1330-1500 THURS, 22 June Mr. Victor L. Friedrich	SUBSESSION E-IV 1330-1500 THURS, 22 June Dr. Vitalij Garber
Human Engineering Laboratory Battalion, Artillery Testa (HSLBAT) *Mr. Gary L. Horley	1. A Unified Method of Describing Vehicle Dynamics * Mr. N. R. Murphy Mr. A. S. Lessem	1. Friction of Poly (n-Alkyl Methacrylates) * Mr. Henry Gisser Mr. Marco Petronio	1. Millimeter Wave Quasi- Optical Techniques for Device and Circuit Functions * Mr. Metro M. Chrepta Dr. Harold Jacobs	1. A Parametric Analysis of the Multiple Artillery Rocket System (MARS) vs the Improved 8-inch Howitzer * MAJ F. J. Franks
2. Hand-Held Leser Range- finder (AN/GVS-5) * Mr. R. J. Newton Mr. F. A. Kobylarz Mr. R. P. Tuttle	2. Analytical Prediction of Vehicle Mobility * Mr. Howard Dugoff Mr. A. A. Rula	2. High Temperature Polymides from a New Hexahydrobenzodipyrrole Monomers * Mr. John T. Stapler Mr. Joseph Bornstein	2. Rare-earth Cobalt Permanent Magnet Materials for Electromechanical Energy Conversion Devices * Dr. G. Iafrate Mr. R. L. Ross Dr. F. Rothwarf Dr. C. Campagnoulo	2. A Means of Inducing Variable Swirl and Increased Engine Efficiency in a Stratified Charge Wankel Engine * CPT D. M. Hoon
3. Lightweight, Small Laser Transmitter Design for Rangefinders Mr. John W. Strozyk MAJ John Hynd * CPT Jesse Moss	3. The Effects of Vibration on Vision as Applied to Military Vehicles * Mr. Richard A. Lee	3. A New Emphasis on the Use of Excited Use State g Factors for the Inter- pretation of Impurity-Ion Spectra * Dr. S. Kulpa Dr. N. Karayianis	3. Fabrication of Optical Elements by Means of a Low Energy Ion Beam * Mr. James D. Lester	3. The Ring Airfoil Grenade * Mr. Abraham Flatau
4. ARMIDOP/ZERO-DOF Position- ing Technique # Mt. Joseph F. Mannigan	Minimization for Personnel Escape Systems "Mr. L. A. Destefano	4. New Class of Materials for High Energy Storage Applications from Crystallization of Inorganic Dielectric Glasses under Pressure *Dr. R. J. Zeto Mr. E. Hryckowian Mr. C. D. Bosco	* Mr. William A. Huber	4. A Novel Synthesis of HMX * Mr. V. I. Siele Mr. M. Garran Mr. J. Leccacorvi Mr. E. E. Gilbert
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SUBSESSION A-V 0830-1000, FRI, 23 June Dr. George K. Eess	SUBSESSION B-V 0830-1000, FRI, 23 June Mr. L. M. Taylor	SUBSESSION C-V 0830-1000, FRI, 23 June Mr. Paul F. Yaggy	SUBSESSION D-V 0830-1000, FRI, 23 June Mr. Benjamin Goodwin	SUBSESSION E-V 0830-1000 FRI, 23 June Dr. William W. Carter
1. Choosing Penfermance Parameters for a Ground. Surveillance Radar with Foliage Penetration Capability Mr. L. V. Surgent, Jr. 2. Receiver Design and	1. Spectroscopic Studies of Luminescence Emitted by Dyes Irradiated by Laser Light * Mr. J. A. Souse Mr. J. F. Roach 2. Improved Sound Ranging	1. Discharge of Helicopters by Electronically Con- trolled Emission of Charge Carrying Liquid Droplets * Mr. Rudolph G. Buser Mr. H. M. Kaunzinger Mr. Hans Inslerman 2. Dynamic Compatibility	1. Miss Distance Radar - A Development for Air Defense Weapons Testing * Mr. Charles E. French	1. A Thixotropic Fuel for Tactical Missiles * Mr. Barry D. Allan
Evaluation by Computer Simulation *Dr. T. J. Klein	Location of Enemy Artil- lery	of Helicopter Propulsion Systems	2. The Frequency Response of a Pneumatic Tee Junction LTC F. J. Redd	Electrical Simulation of the Internal Electro- magnetic Fulse
or. I. J. Alein	Dr. Donald M. Swingle * Dr. Craig Crenshaw Mr. Raymond Bellucci	Mr. James Gomez * Mr. John M. Vance	* CPT F. Cardile	* Mr. John A. Rosado
3. Doppler Translator *Mr. Otto E. Rittenbach	3. Application of Image Up-Conversion to Night Fire Control * Mr. Joseph A. Schmitz	3. A Theoretical and Experimental Investigation of Flap-Lag Stability of Hingeless Helicopter Rotor Blades	3. Optimization of Resource Allocation in Maintenance Management Logistics Systems	3. Response of Cylindrical Shells to Traveling Load Simulation of X-Ray Blow-off Impulse
		* Mr. Robert Ormiston Mr. William Bousman	* Mr. R. L. Trent COL E. Martin Mr. J. C. Wine	* Mr. N. J. Huffington, Jr. Mr. John D. Wortman
4. Studies in Fersonnel Detection Rader Mr. C. A. Roberts	4. A Helium-Neon Laser Hit- Kill Simulator	4. Development of a Dynamic Model for an Aircraft Gun Turret System	Military Foods	4. Advanced High Energy Missile Control Systems
* Mr. R. T. Anteny Mr. S. J. Peperone	SPA ". Curtis Mr. J. Isaacson Mr. E. Kratschmer Mr. W. Wilson	* Mr. Tonney H. M. Hung Mr. James T. Wong Mr. Philip E. Townsend	" Mr. A. R. Rahman Mr. W. L. Henning Mr. S. Bishov Mr. D. E. Westcott	* Dr. L. C. Atha
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